# Please make sure that you print this resource at 100% so that all measurements are correct. To do this, follow the relevant steps below.

#### Adobe Reader or Adobe Acrobat

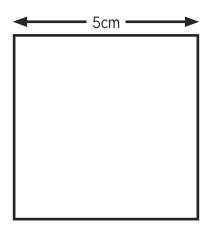
- Adobe Reader is a free PDF viewer, from Adobe. To install a copy of Adobe Reader, go to https://get.adobe.com/uk/reader/.
- Once Adobe Reader is installed, open your PDF.
- Go to File>Print.
- Under 'Page Sizing & Handling', select 'Size'.
- From here, make sure that 'Actual Size' is selected.
- Print this page as a test, making sure that the shape below is the correct size once printed.
- If the test print is correct, print your PDF.

#### Foxit Reader

- Go to File>Print.
- Set the 'Scaling' to 'None'.
- Print this page as a test, making sure that the shape below is the correct size once printed.
- If the test print is correct, print your PDF.

#### **Web Browser**

- If printing from a web browser, such as Chrome, Firefox or Microsoft Edge make sure that your printer is set to print at 100%, either by unticking 'Fit to Page' or selecting 'Actual Size'.
- Print this page as a test, making sure that the shape below is the correct size once printed.
- If the test print is correct, print your PDF.





I can calculate the perimeter of squares.



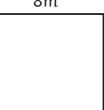
 $4 \times \alpha = perimeter$ 

(a = length of a side)

1. Calculate the perimeter of each square. Fill in the missing box to calculate the perimeter. The first one has been done for you.

a)





b)



c)

7m

32

m



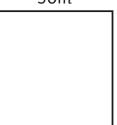
d)

20m



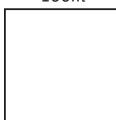
e)

50m



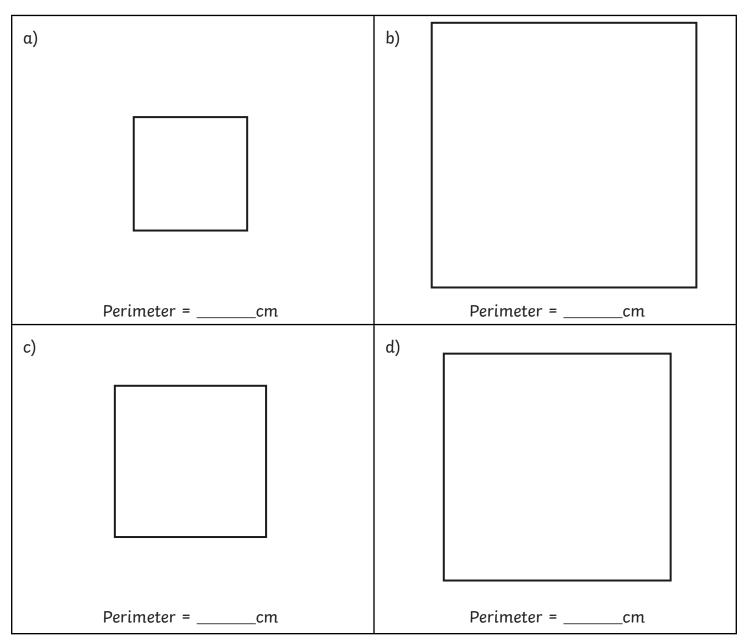
f)

100m





2. The lengths of these squares haven't been given. Measure the lengths in centimetres and calculate the perimeter of each shape.



3. A farmer has a square field which he needs to put fencing around. The sides of the field measure 30m. The fencing costs £5 per metre. How much will it cost him to fence the field? Show how you worked out your answer.

### Question 1

- a.  $4 \times 8m = 32m$
- b.  $4 \times 3m = 12m$
- c.  $4 \times 7m = 28$ m
- d.  $4 \times 20m = 80m$
- e.  $4 \times 50m = 200m$
- $f. 4 \times 100m = 400m$

### Question 2

- a. 12cm
- b. 28cm
- c. 16cm
- d. 24cm

### Question 3

£600

I can calculate the perimeter of squares.



 $4 \times \alpha = perimeter$ 

(a = length of a side)

1. Calculate the perimeter of each square. Fill in the missing box to calculate the perimeter. The first one has been done for you.

a) 35m

4 × 35 = 140 m

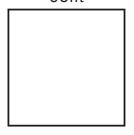
b)

7.5m

4 × = m

c)

60m



4 × = m

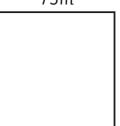
d)

15m

4 × = m

e)

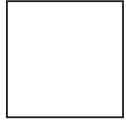
75m



4 × = m

f)

30m



4 × = n



2. The lengths of these squares haven't been given. Some measurements are half centimetres. Measure the lengths in centimetres and calculate the perimeter of each shape.

α)		b)
	Perimeter =cm	Perimeter =cm
c)		d)
	Perimeter =cm	Perimeter =cm



32cm

3.	Here are the	perii	neters of	some	squares	whose	sides	s are w	hole-nui	mber	measurer	nents:
		<b>–</b> [					1 —					

48cm

Cara says:

20cm

12cm

I can tell whether a number will be a perimeter of a square or not, as I have noticed something about these numbers.

a) What do you think Cara has noticed about these numbers?



o)	Use this information to write a different perimeter of a square whose sides ar whole-number measurements:

### Question 1

a. 
$$4 \times 35m = 140m$$

b. 
$$4 \times 7.5m = 30m$$

c. 
$$4 \times 60m = 240m$$

d. 
$$4 \times 15m = 60m$$

e. 
$$4 \times 75m = 300$$
m

$$f. 4 \times 30m = 120m$$

### Question 2

- a. 20cm
- b. 14cm
- c. 28cm
- d. 22cm

#### Question 3

- a. Answer indicates that the perimeters of squares with whole-number side measurements are multiples of 4.
- b. A perimeter measurement where the answer is a multiple of 4.

I can calculate the perimeter of squares.



 $4 \times \alpha = perimeter$ 

(a = length of a side)

1. Calculate the perimeter of each square. The first one has been done for you.

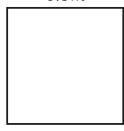
C	l	)	

32m



b)

6.5m



c)

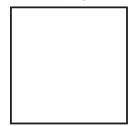
125m



4 ×	=	n

d)

24m



e)

21m



f)

44m





2. The lengths of these squares haven't been given. Some measurements are half centimetres. Measure the lengths in centimetres and calculate the perimeter of each shape.

α)		b)	
	Perimeter =cm		Perimeter =cm
c)		d)	
	Perimeter =cm		Perimeter =cm



### 3. Ty says:

I know that 48cm could be the perimeter of a square with whole-number side measurements, but 50cm could not be.



a)	Can you explain how to decide whether a measurement could be the perimeter of square with whole-number side measurements?	· a

b) Use this information to determine if these numbers could be perimeters of squares (with whole-number measurements). Place a tick beside the numbers which are perimeters of squares.

 100cm
 35cm
 21cm

 44cm
 22cm
 36cm

 110cm
 120cm
 78cm

### Question 1

a. 
$$4 \times 32m = 128m$$

b. 
$$4 \times 6.5m = 26m$$

c. 
$$4 \times 125m = 500m$$

d. 
$$4 \times 24m = 96m$$

$$f. 4 \times 44m = 176m$$

g.

### Question 2

- a. 24cm
- b. 26cm
- c. 14cm
- d. 30cm

### Question 3

a. Answer indicates that the perimeters of squares with whole-number side measurements are multiples of 4.